



Expression Vector for Hirudin and Transformant Cells
and Transgenic Animals Containing Said Vector
Inventors: Chieh-Sheng Lin, Yu-Ling Sun, Ping-Chen Yang
Ching-Fu Tu, Shinn-Chih Wu
Application No.: 10/053,641
Docket No. P1393

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Seq1: Hi-AF (104 mers)

5'-gatcctttatggttggttacactgactgcactgaatccggtcagaacctgtgacctgtg
cgaaggctctaacgthgaggccagggaacaaatgcatacctgggc-3'

Seq2: Hi-AR (107 mers)

5'-ctctagagcccaggatgcatttggtgacctggccgcaaacgtagagccttcgcacag
gcacagggtctgaccggattcagtgcaagtcagtgtaaaccaaccataaag-3'

Seq3: Hi-BF (111 mers)

5'-tctagaggcgaaaaaatcaatgcgttactggcggaagggtactccacaaggctttgaat
cccggagaagaatagaaaccgcagttctccgacgacagaacctgcaataatagggc-3'

Seq4: Hi-BF (108 mers)

5'-ggccgacctattatgacaggtattcttcgggattcttcaaagtcgccgtcggttg
agactgcggttcggagtagccttcgccagtaacgcattgatthtttcgc-3'

Figure 1



Expression Vector for Hirudin and Transform Cells
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Seq5: Hi-PCR-AF (33 mers)
5'-tcgggatcctttatggttgttacactgactgc-3'

Seq6: Hi-PCR-AR (31 mers)
5'-gcctctagagcccaggatgcatttggtgccc-3'

Seq7: Hi-PCR-BF (38 mers)
5'-ggctctagaggcgaaaaaatcaatgagttactggcga-3'

Seq8: Hi-PCR-BR (32 mers)
5'-catgcggcgccctattattgcaggtattctt-3'

Figure 2



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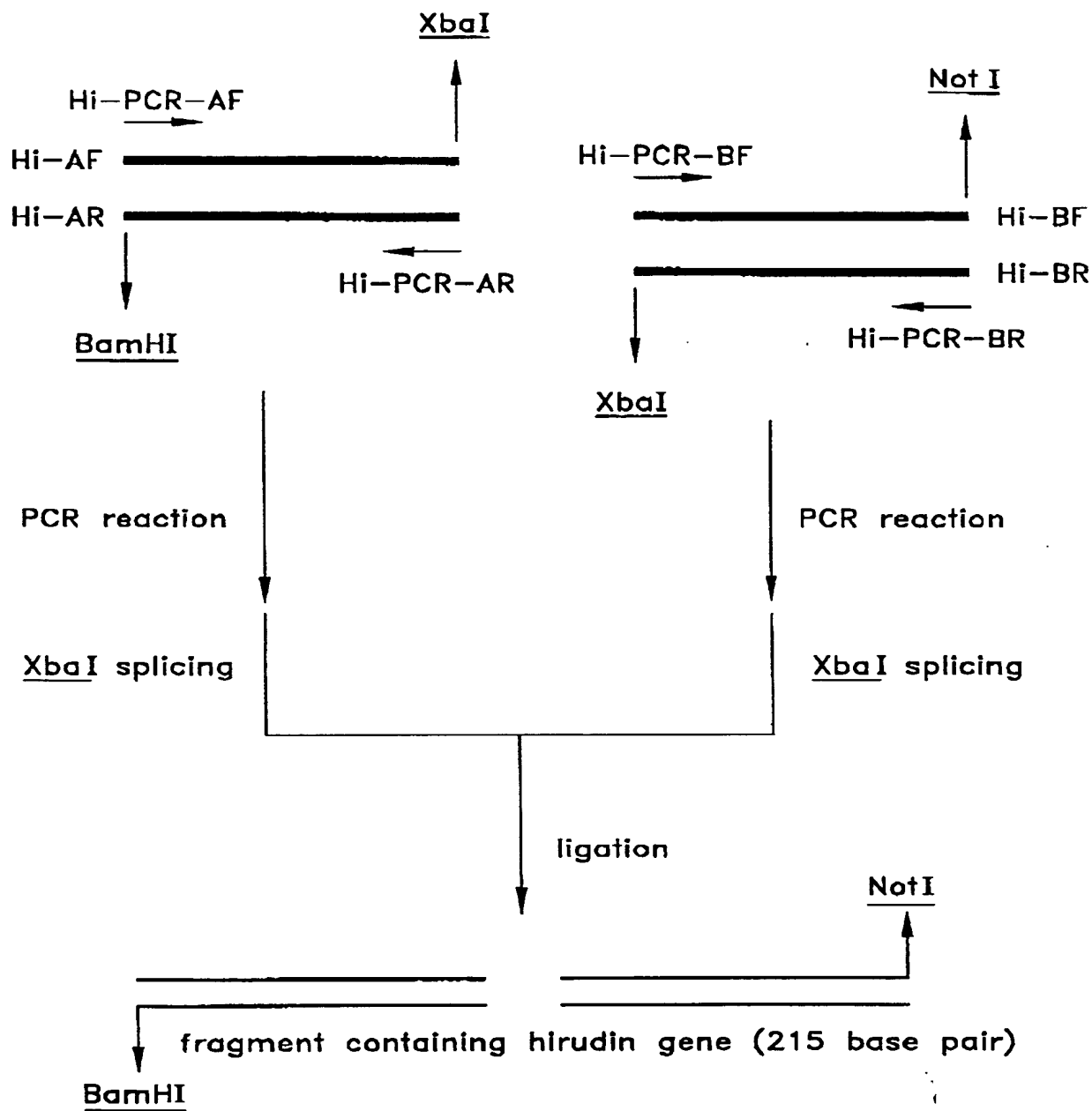


Figure 3



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(A) SEQ ID No. 9

GATCCTTT ATG GTT GTT TAC ACT GAC TGC ACT GAA TCC GGT CAG
AAC CTG TGC CTG TGC GAA GGC TCT AAC GTT TGC GGC CAG GGC
AAC AAA TGC ATC CTG GGC TCT AGA GGC GAA AAA AAC CAG TGC
GTT ACT GGC GAA GGT ACC CCG AAA CCG CAG TCT CAC AAC GAC
GGC GAC TTC GAA GAA ATC CCG GAA GAA TAC CTG CAG TAA TAGGGC

(B) SEQ ID No. 10

Met Val Val Tyr Thr Asp Cys Thr Glu Ser Gly Gln Asn Leu
Cys Leu Cys Glu Gly Ser Asn Val Cys Gly Gln Gly Asn Lys
Cys Ile Leu Gly Ser Arg Gly Glu Lys Asn Gln Cys Val Thr
Gly Glu Gly Thr Pro Lys Pro Gln Ser His Asn Asp Gly Asp
Phe Glu Glu Ile Pro Glu Glu Tyr Leu Gln

Figure 4

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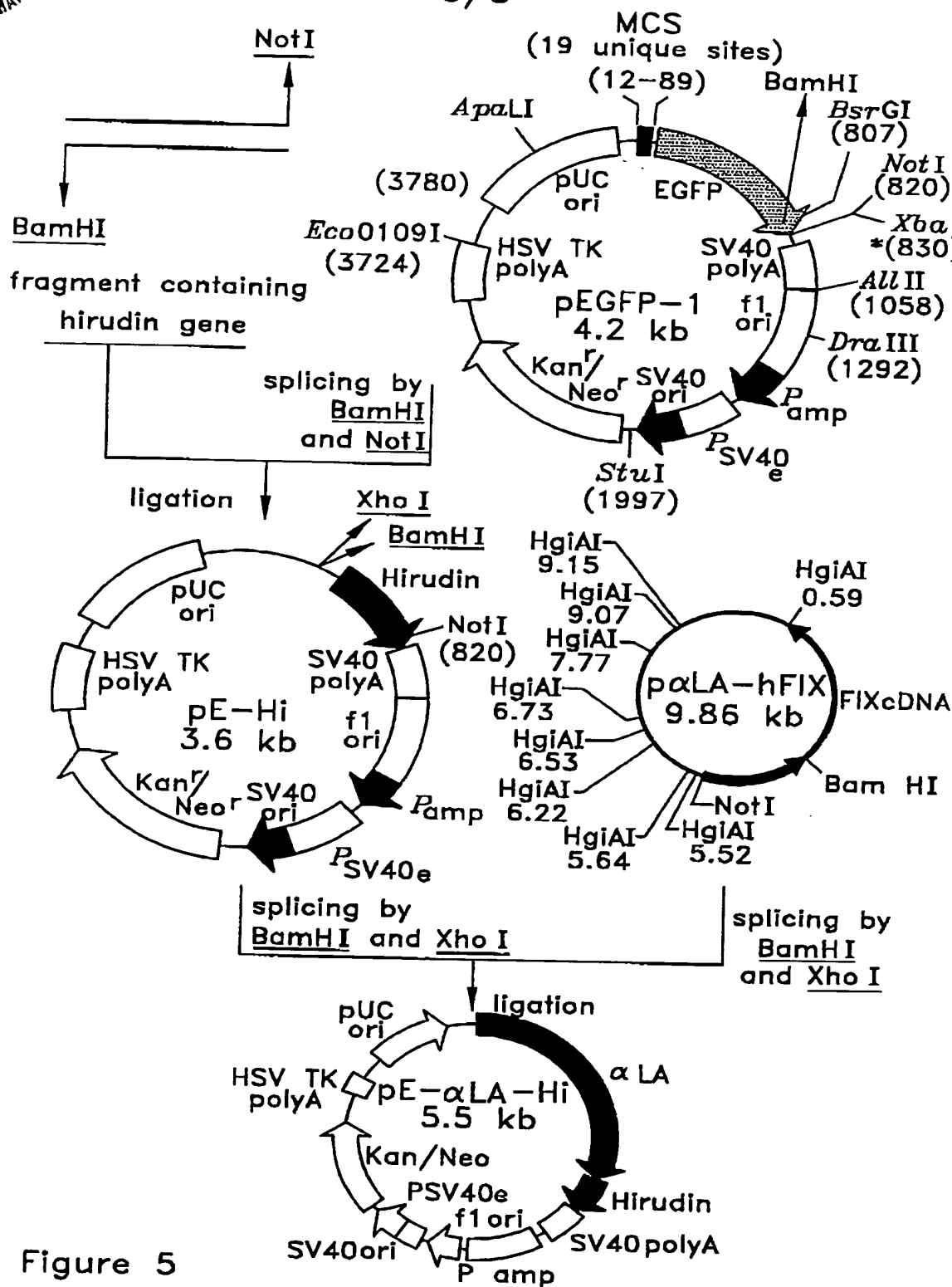


Figure 5



0.03 mg homogenization solution of mammary gland cell

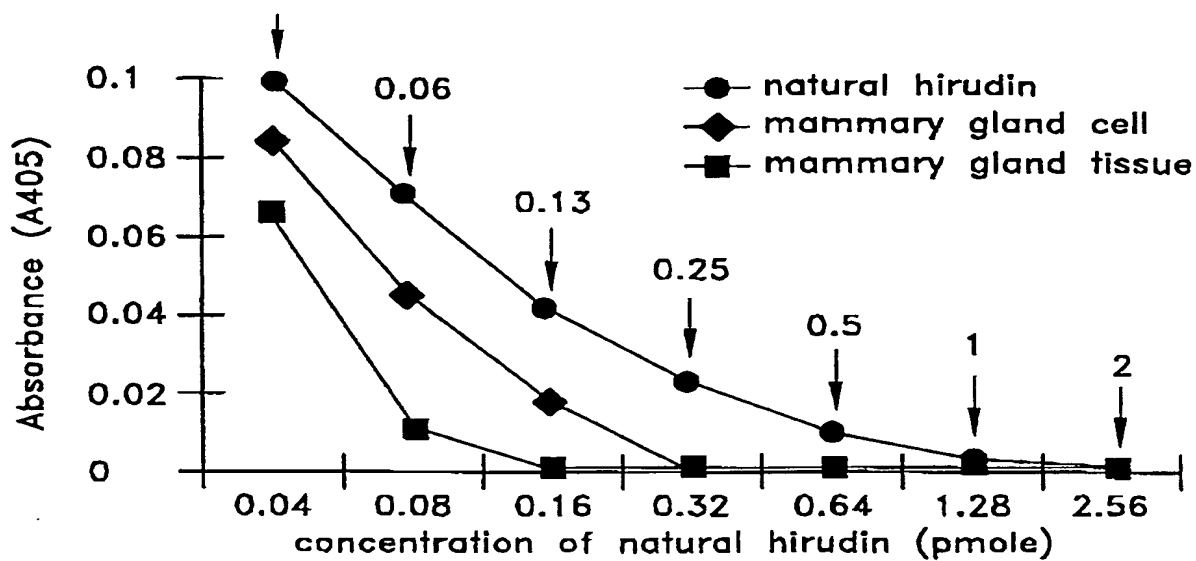


Figure 6



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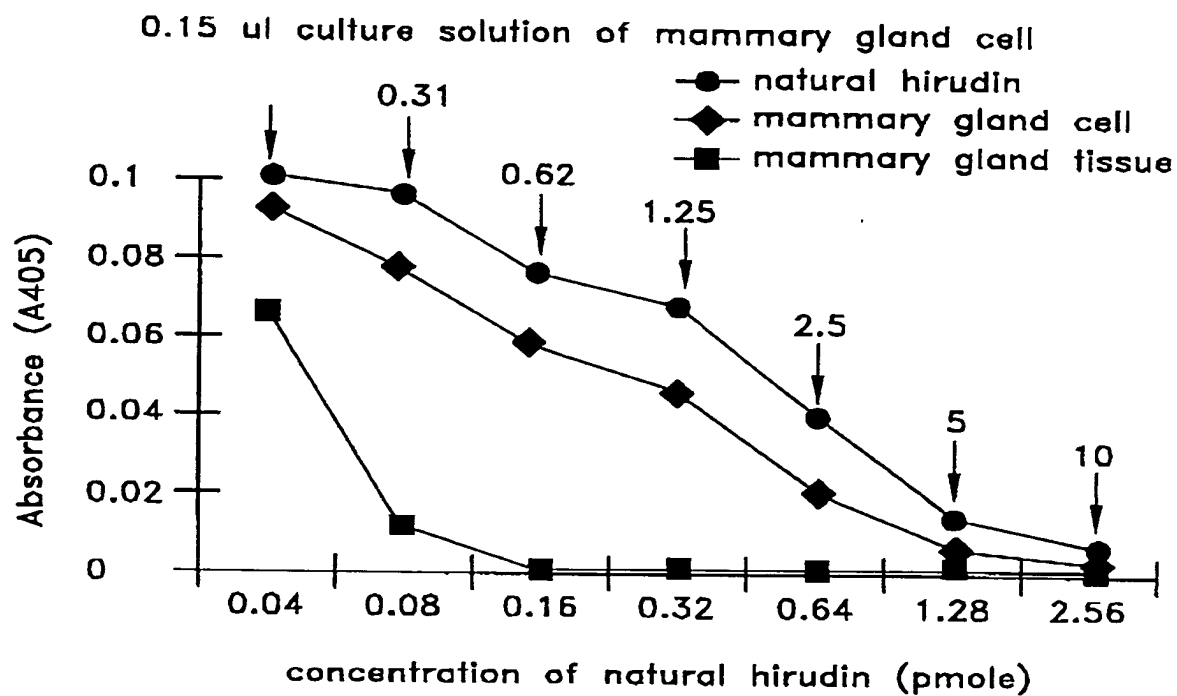


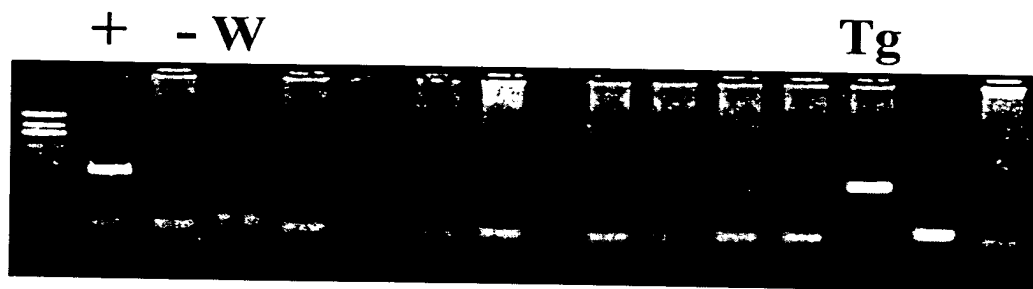
Figure 7



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(A)



(B)

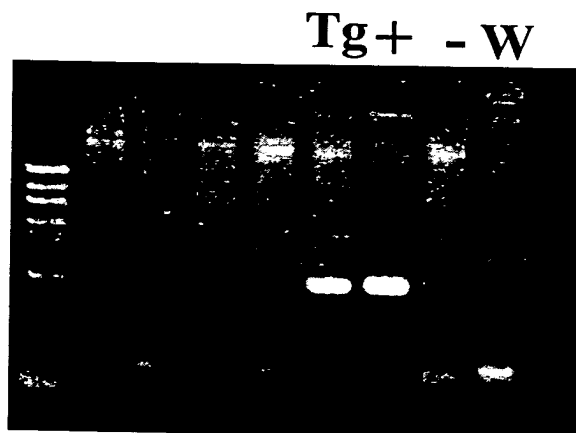


Fig. 8